IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A multi-stack optical data storage medium for recording and reading using a focused radiation beam having a wavelength of 655 nm entering through an entrance face of the medium during recording and reading, comprising:
- a first substrate having, on a side thereof, a first recording stack L_0 comprising a recordable type L_0 recording layer comprising a dye, and formed in a first L_0 guide groove, and a first reflective layer present between the L_0 recording layer and the first substrate;
- a second substrate having, on a side thereof, a second $\\ \text{recording stack L_1 comprising a recordable type L_1 recording layer,} \\ \text{said second recording stack being at a position closer to the}$

entrance face than the $L_{\scriptscriptstyle 0}$ recording stack and formed in a second $L_{\scriptscriptstyle 1}$ guide groove; and

a transparent spacer layer sandwiched between the first and second recording stacks, said transparent spacer layer having a thickness substantially larger than the depth of focus of the focused radiation beam,

characterized in that the first L_0 guide groove has a depth G_{L0} in the range 25 nm < G_{L0} < 40 nm, and the first reflective layer comprises a metal and has a thickness > 50 nm so that a modulation M of 75% and a reflection level of 70% are obtained, wherein the modulation is M = $(R_{\text{no-mark}}-R_{\text{mark}})/R_{\text{no-mark}}$, R_{mark} and $R_{\text{no-mark}}$ being reflection levels from a read out laser beam when respectively a written mark and no mark are present.

2.(Previously Presented) The multi-stack optical data storage medium as claimed in claim 1, wherein the first L_0 guide groove has a full half maximum width $W_{L0} < 350$ nm.

Claim 3 (Canceled)

- 4. (Previously Presented) The multi-stack optical data storage medium as claimed in claim 1, wherein the recordable type $L_{\scriptscriptstyle 0}$ recording layer has a thickness between 70 nm and 150 nm measured on the land portion of the guide groove.
- 5. (Previously Presented) The multi-stack optical data storage medium as claimed in claim 1, wherein said multi-stack optical data storage medium further comprises a dielectric layer present at a side of the L_0 recording layer opposite from the side where the first reflective layer is present.
- 6.(Previously Presented) The multi-stack optical data storage medium as claimed in claim 5, wherein the dielectric layer has a thickness in the range of 5 nm 120 nm.
- 7. (Previously Presented) The multi-stack optical data storage medium as claimed in claim 1, wherein said multi-stack optical data storage medium further comprises a second reflective layer

comprising a metal present at a side of the $L_{\scriptscriptstyle 0}$ recording layer opposite from the side where the first reflective layer is present.

- 8.(Previously Presented) The multi-stack optical data storage medium as claimed in claim 7, wherein the second reflective layer has a thickness in the range of 5 nm -15 nm.
- 9.(Previously Presented) The multi-stack optical data storage medium as claimed in claim 7, wherein the second reflective layer mainly comprises a metal selected from the group of Ag, Au, Cu, Al.
- 10.(Previously Presented) The multi-stack optical data storage medium as claimed in claim 1, wherein the effective reflection level of the stacks is at least 0.18 at a radiation beam wavelength of approximately 655 nm.

Claim 11 (Canceled)